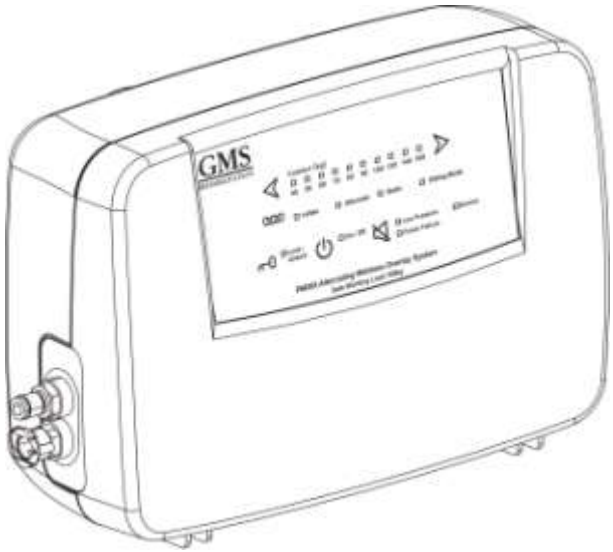
Dynamic Alternating Therapy Pump
Overlay and Replacement Mattress System

PM265
PM268
Instruction Manual



A GMS REHABILITATION PRODUCT

Model No.: 9P-052 series

PLEASE READ ALL INSTRUCTIONS BEFORE USE.

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IMPORTANT SAFEGUARDS

READ ALL INSTRUCTIONS BEFORE USING

DANGER - To reduce the risk of electrocution:

1. Always unplug this product immediately after use.
2. Do not use whilst bathing or in wet areas.
3. Do not place or store product where it can fall or be pulled into a tub or sink.
4. Do not place in or drop into water or other liquid.
5. Do not reach for a product that has fallen into water. Unplug immediately.
6. Do not open the pump casing – return to service centre for repair.
7. Opening the casing/pump housing will void warranty.

WARNING - To reduce the risk of burns, electrocution, fire, or injury to persons:

1. Close supervision is necessary when this product is used by, on, or near children or invalids.
2. Use this product only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
3. Never operate this product if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the product to GMS Rehabilitation or authorized service centre for examination and repair.
4. Keep the cord away from heated surfaces.
5. Never block the air openings of this product or place it on a soft surface, such as a bed or couch, where the openings may be blocked. Keep the air opening free of lint, hair, and other similar particles.
6. Never drop or insert any object into any opening or hose.
7. Connect this product to a properly grounded outlet only. See Grounding Instructions.

NOTE, CAUTION AND WARNING STATEMENTS:

NOTE - Indicates some tips.

CAUTION - Indicates correct operating or maintenance procedures in order to prevent damage to or destruction of the equipment or other property.

WARNING - Calls attention to a potential danger that requires correct procedures or practices in order to prevent personal injury.

SYMBOLS

Authorised representative in the European community

Manufacturer

"BF" symbol, indicates this product is manufactured according to the degree of protection against electric shock for type BF equipment.

Grounding terminal (for 230V system)

Attention, read the instructions!

Disposal of Electrical & Electronic Equipment (WEEE):
This product should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. For more detailed information about the recycling of this product, please contact your local city office, household waste disposal service or the retail store where you purchased this product.

1. INTRODUCTION

This manual should be used for initial set up of the system and for reference purposes.

1.1 GENERAL INFORMATION

The system is a high quality and affordable mattress system suitable for stage I, II, III ischemic ulcer treatment and prevention of pressure related complications.

The system has been tested and successfully approved with the following standards:

CE

EN 60601-1
EN 60601-1-2
EN 55011 Class B
IEC61000-3-2
IEC 61000-3-3

1.2 INTENDED USE

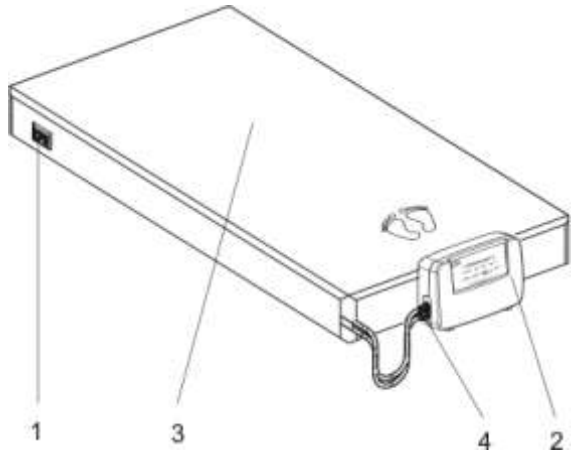
This product is intended to help and reduce the incidence of pressure/ischemic ulcers whilst optimizing patient comfort. Recommended for:

- An Individual in a home care setting and long-term care who suffer from pressure/ischemic ulcer/s or risk of ischemic ulcer formation.
- Pain management as prescribed by physician/ health care professional

⚠ **NOTE:** Equipment not suitable for use in the presence of a flammable anesthetic mixture with air, or oxygen, or nitrous oxide.

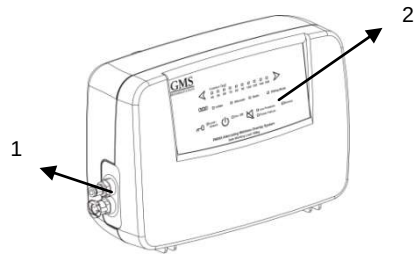
2. PRODUCT DESCRIPTION

2.1 PUMP AND MATTRESS SYSTEM

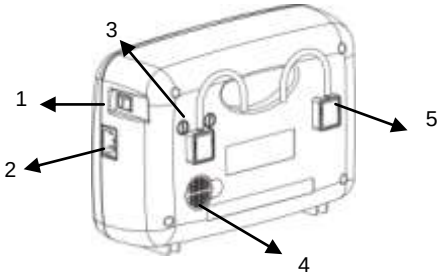


1. CPR
2. Pump unit
3 Mattress System
4 Quick Connectors

2.2 PUMP UNIT

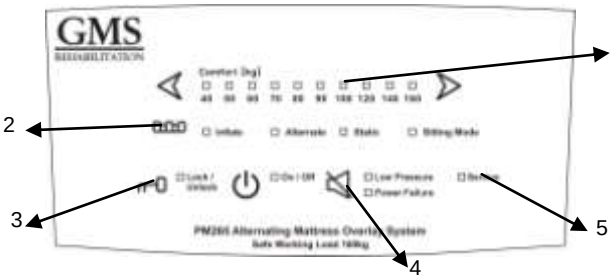


Front
1. Quick Connectors
2. Front Panel



Rear
1. Main Power Switch
2. Power Cord Female Receptacle
3. Fuses
4. Air Filter
5. Mounting Brackets

2.3 FRONT PANEL



1. Comfort Adjust Levels

The Comfort keys adjusts the pump pressure output to the mattress/overlay. When pressing the ( ), output pressure increases making the mattress/overlay firmer. Pressing ( ) decreases the air pressure, making the mattress/overlay softer.

When the pump is started it always begins in the inflation mode and then changes to Alternate. Once Alternate is illuminated the carer sets the pressure to the appropriate weight of the client, and adjusts afterwards for client comfort and clearance.

2. Therapy

Press the Therapy button to change the therapy mode.

A. Inflate Mode

This is the default mode each time the power switch is turned on. This ensures the pump is able to reach its maximum operating pressure. Once the max pressure level is reached, the pump will automatically switch into alternating mode. The user can also activate this function to assist with easier transfer on and off the mattress/overlay surface.

B. Alternate Mode

The normal operating mode of the system. The mattress overlay system will alternate every 10Mins.

C. Static Mode

The static mode inflates all mattress/overlay cells equally and stops all alternation. The mode can be activated or suspended by pushing on the static button. The advantage of operating in a static mode is it allows caregivers to perform therapy on a level surface. Also some clients may initially find alternation prevents them from going to sleep so this mode can assist. The Static automatically reverts back to alternation after 20 minutes. It is not recommended or therapeutic to extend the static mode beyond 20 minutes.

D. Sitting Mode

The seat inflation feature provides additional pressure support to the mattress/overlay and is usually activated during bed backrest elevation. The extra pressure reduces the potential of the client bottoming out whilst sitting upright. It can be activated to work alone or in combination with the static mode.

3. Lock/Unlock (Panel Lock)

Should the panel remain untouched for 3 minutes, the panel lock feature will lock all panel keys with green LED light on to prevent accidental changing of the setting during normal operation. To unlock, simply press and hold the Panel lock button for 3 seconds.

4. Alarm Mute

Press alarm mute button to temporarily suspend the low-pressure alarm (LED light and buzzer). Should the situation not be resolved within 5 minutes, the alarm shall resume.

A. PFA (Power Failure Alarm)

During power failure situation, the Power Failure LED light will light up with the buzzer sounding. Pressing the mute button will disable both buzzer and LED and turn off the pump. The pump will restart when power supply resumes, but will need the operator/carer to reset. ***Do not have the client on the mattress/overlay during power failure or low pressure situations.***

B. Low Pressure Indicator

When low pressure LED lights up, the pressure inside of air mattress is below normal. Please refer to troubleshooting.

5. Service LED

This service LED will illuminate when the unit fails due to a mechanical fault- Please contact your local service technician or call GMS Rehabilitation on 1800 060 919. ***DO NOT CONTINUE TO USE THE PRODUCT***- remove the client from this surface.

3. INSTALLATION

Unpack the box to inspect for damage, which may have occurred during shipment. If there is any damage, please contact your dealer immediately.

3.1 PUMP & MATTRESS INSTALLATION

1. Place the mattress/overlay on top of the bed frame. Please note the foot end. Overlay to go on top of existing foam mattress, Mattress replacements on to bed base.

2. Hang the pump onto bed rail (foot-end), and adjust hangers, or place the pump on the floor in safe position.

3. Connect air hose connectors from air mattress to the pump unit. When a "click" sound is felt or heard, the connection is completed and secured.

⚠ **NOTE:** Check and ensure the air hoses are not kinked or tucked under mattress.

4. Plug the power cord into electrical outlet and pump unit.

⚠ **NOTE:** 1. Make sure the pump unit is suitable for the local power voltage.

CAUTION: The pump can only be used with the mattress recommended by the manufacturer. Do not use it for any other purpose.

5. Then turn the main Green power switch to the ON position.

Grounding:

Before any connection to the output connectors is made, the unit shall be connected to a protective earth conductor via the three-core main cable; the mains plug shall be inserted only into a socket outlet provided with a protective earth contact. The protective action shall not be negated by the user of an extension cord without protective conductor. **Use only the cord supplied with the unit.**

Several installation tips are listed below:

After installation, the extra length of the power cord, if any, should be neatly arranged to avoid any tripping accidents. The pump should be firmly placed in a position where users/carers can access easily.

4. OPERATION

⚠ **NOTE:** Always read the operating instructions before use.

4.1 GENERAL OPERATION

1. Switch on the main power switch found at the side of the pump. GREEN

2. Press the ON/OFF, the pump unit delivers air to the mattress and takes approximately 20 min to fully inflate.

3. The low-pressure indicator (yellow LED) will light up with an alarm sounding if normal operating pressure is not reached from power on around 40mins. When the appropriate pressure is reached, the low-pressure indicator (yellow LED) will go off and pump will automatically revert to the status of last power off (e.g. enter the alternating mode).

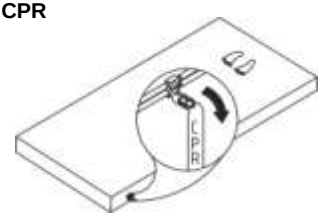
4. Once fully inflated and in alternation mode with no alarms sounding the client can be placed on the mattress/overlay. The comfort setting can be adjusted to suit the individual client. It is essential to test for clearance of at least 50mm between the clients sacral/bottom region and the base of the mattress/overlay

NOTE

Unzip cover and place hand between the deflated cell and client's sacrum/bottom. There should be 2"/5cm gap when the cell is deflated. If not increase the comfort level and retest. If unable to achieve ring your local dealer for advice.

STANDARD MATTRESS

4.2 CPR



When there is an emergency that requires CPR to be performed on the client, quickly pull the CPR valves to release air from mattress. The CPR valves are located at the head-end, right-hand-side of the mattress. The quick connector found on the pump unit can be disconnected for even faster deflation.

4.3 PRESSURE SET UP

Users can adjust pressure of air mattress to a desired softness by adjusting the comfort keys. Please consult your physician/allied health professional for a suitable setting.

Clients can lie on the mattress after the pump is running under the alternating mode; this indicates the pressure has reached normal operating levels.

⚠ **NOTE:** Check to see if the suitable pressure is selected by sliding one hand between the deflated air cells and the patient to feel patient's buttocks. Users should be able to feel the minimum contact.

4.4 LOW PRESSURE INDICATION FUNCTION

When an abnormal low pressure occurs, the Low Pressure indicator (yellow LED) will light up along with the buzzer. Check to ensure all connections are connected properly and that they are correctly installed as per installation instructions.

⚠ **NOTE:** If the pressure level is consistently low, check for any leakage (tubes or connecting hoses). If necessary, replace any damaged tubes or hoses. Contact local qualified dealer for repair. ***Do not continue to use the product in a low pressure condition.***

The Low Pressure indicator will light up until the low-pressure fault condition is resolved.

4.5 STATIC MODE

Press the STATIC button to suspend the alternating mode of mattress. By pressing this button again, the mattress will switch back to alternating therapy mode. This will auto revert to alternating mode after 20 minutes.

4.6 ALARM MUTE

When a low-pressure situation has occurred, both the LED light and buzzer will sound off to warn the client/carer. Press the button to temporarily mute the buzzer so the care giver can check for possible air leaks. Should the situation not be resolved within 5 minutes, the alarm will resume beeping.

5. CLEANING

It is important to follow the cleaning procedures before using the machine on human bodies, to reduce the risk of infection.
Wipe the pump unit with a damp cloth pre-soaked with a mild detergent, and keep it away from dust. If other detergent is used, choose one that will have no chemical effects on the surface of the plastic case of the pump unit.

⚠ **CAUTION:** Do not immerse or soak pump unit.

Wipe the mattress unit with a damp cloth pre-soaked with warm water (not to exceed 65°) containing a mild detergent, and keep it away from dust. The cover may also be cleaned using sodium hypochlorite diluted in water (1% concentration). All parts should be air dried thoroughly before use.

⚠ **CAUTION:** Do not use phenolic-based product for cleaning.

⚠ **CAUTION:** After cleaning, dry the mattress without direct exposure to sunlight.

The carrying bag (if available) should be turned inside out and completely wiped down using the disinfectant solutions. Allow it to air-dry thoroughly. Once the inside is dry, turn it back and wipe down the outside of the bag with disinfectant solutions.

6. STORAGE

1. To store, disconnect air hoses and remove CPR plugs
2. Lay the mattress out flat and upside down.
3. Roll from the head end towards the foot end.
4. Foot-end strap can then be stretched around the rolled mattress to prevent unrolling.

⚠ **Note:** Do not fold, crease or stack the mattresses.

7. MAINTENANCE

7.1 GENERAL

1. Check main power cord and plug to ensure there are no abrasions or excessive wear.

2. Check mattress cover for signs of wear or damage. Ensure mattress cover and tubes are held together correctly.

3. Check airflow from the air hose connector. The airflow should alternate between each connector every half-cycle time if it's in alternating mode.

4. Check the air hoses for any kinks or breaks. For replacement, please contact our local dealers.

7.2 FUSE REPLACEMENT

1. Disconnect the plug from mains power when a blown fuse is suspected.

2. Remove the cover of the fuse holder by means of a small screwdriver.

3. Insert a new fuse of the correct rating, and replace the cover of the fuse holder. The fuse should be rated as T1A/250V type and VDE approved.

7.3 AIR FILTER REPLACEMENT

1. Loosen the screws from the air filter plate located at the back of pump.

2. The filter is reusable and can be washed gently with a mild detergent and water. Dry the filter before use.

3. Check and replace air filter regularly if environment is dirty.

8. TECHNICAL DESCRIPTION

Specifications:

Item		Specification
Power Supply (Note: See rating label on the product)		AC 230-240V 50/60 Hz, 0.07A (for 230V system)
Fuse Rating		T1A, 250V
Cycle time		Fixed 10 minute
Dimension (L x W x H)		29.1 x 20 x 11.7 (cm) or 11.4" x 7.9" x 4.6"
Weight		2.2 Kg or 5 lb
Environment	Temperature	Operation:10° C to 40° C (50° F to 104° F) Storage: -15° C to 50° C (5° F to 122° F) Shipping: -15° C to 70° C (5° F to 158° F)
	Humidity	Operation: 10% to 90% non-condensing Storage: 10% to 90% non-condensing Shipping:10 % to 90% non-condensing
Classification		Type BF, IPX0 Applied Part: Air Mattress Not suitable for use in the presence of a flammable anesthetic mixture (No AP or APG protection)
Mattress		**Specification**
Model		8” Mattress
Dimension (L x W x H)		200 x 90 x 20.3 (cm) or 78.7" x 35.4" x 8"
Weight		7.5 kg or 16.5 lb

NOTE: 1. Consult the local agent or call GMS Rehabilitation for further technical documents.
2. The specification are suitable for all areas operating with same power supply.
3. The manufacturer reserves the right to modify the specification without notice.

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

This product should be grounded. In the event of an electrical short circuit grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

DANGER - Improper use of the grounding plug can result in a risk of electric shock.

If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

NOTE - If the repair or replacement of the cord is necessary, please contact a qualified electrician or serviceman. To reduce the risk of electric shock, do not modify the cord or plug in any way.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded.

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VICTORIA, AUSTRALIA
PH 1800 060 919 FAX 1300 734 998
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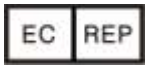

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